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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/05/2010

STITES & HARBISON PLLC 1199 NORTH FAIRFAX STREET SUITE 900 ALEXANDRIA, VA 22314

**EXAMINER** SHEVIN, MARK L ART UNIT PAPER NUMBER

1793

DATE MAILED: 05/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,358	05/18/2006	Geoffrey William Miller	P08836US00/BAS	9201

TITLE OF INVENTION: PROCESS FOR RECOVERY OF NICKEL AND COBALT BY HEAP LEACHING OF LOW GRADE NICKEL OR COBALT

CONTAINING MATERIAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed off tions	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees spondence address	will be ; and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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STITES & HA 1199 NORTH F SUITE 900	I he Sta add trar	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
ALEXANDRIA	, VA 22314						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	<u> </u>	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/564,358	05/18/2006		Geoffrey William Miller		PO	08836US00/BAS	9201
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/05/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	_			
SHEVIN,	MARK L	1793	075-743000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.		or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be	the names of up to 3 registered patent attorneys spents OR, alternatively, the name of a single firm (having as a member a tered attorney or agent) and the names of up to existered patent attorneys or agents. If no name is 1, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CITY	patent. If an assign assignment. Y and STATE OR (	COUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporati	on or other private gro	oup entity 🔲 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicateds SMALL ENTITY state	*	b. Applicant is no lor				
NOTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other than				e assignee or other party in
				Data			
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This collection of inform	nation is required by 37 (	ER 1 311 The information	on is required to obtain or	retain a benefit by	the pub	lic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	7 depending upon the indi e Chief Information Offic COMPLETED FORMS T	timated to take 12 vidual case. Any coer, U.S. Patent and O THIS ADDRES	minutes omment Traden S. SEN	s to complete, includings on the amount of tirnark Office, U.S. Depart D TO: Commissioner	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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STITES & HARI	BISON PLLC	SHEVIN,	MARK L		
1199 NORTH FAI	RFAX STREET	ART UNIT PAPER NUMBER			
SUITE 900 ALEXANDRIA, V	'A 22314		1793 DATE MAILED: 05/05/201	0	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 178 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 178 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/564,358	MILLER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MARK L. SHEVIN	1793	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.37	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is a	n this application. If not included unication will be mailed in due coul	rse. THIS
1. This communication is responsive to <u>RCE filed 02/22/201</u>	<u>10</u> .		
2. The allowed claim(s) is/are 1-17,19 and 20.			
3. Acknowledgment is made of a claim for foreign priority (a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the certified copies of the priority documents have 1. Certified copies of the certified copies of the priority documents have 1. Certified copies not received: Provided the priority documents have 1. Certified copies not received: Provided the priority documents have 1. Certified copies not received: Provided the priority documents have 1. Certified copies not received: Provided the priority documents have 1. Certified copies of the priority	ve been received. ve been received in Application ocuments have been received "of this communication to file MENT of this application. mitted. Note the attached EX.	on No  d in this national stage application  a reply complying with the require	ements
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") me</li> <li>(a) ☐ including changes required by the Notice of Draftspe</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examine Paper No./Mail Date</li> </ol>	rson's Patent Drawing Revie _·		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6.   DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMEN	the header according to 37 Closit of BIOLOGICAL MAT	FR 1.121(d). ERIAL must be submitted. Note	•
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 7. ☑ Examiner's 8. ☑ Examiner's 9. ☐ Other	iformal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowan 	ice
/Mark L. Shevin/	/ Roy King/ Supervisory Pa	tent Examiner, Art Unit 1793	

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### **DETAILED ACTION**

#### Status of Claims

**1.** Claims 1-17 and 19-20, filed February 22<sup>nd</sup>, 2010, are currently under examination. Claims 1 and 7 were amended and claim 18 is canceled.

#### Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stephen J. Weyer on April 23<sup>rd</sup>, 2010.

# Start of Claim Amendments

\_\_\_\_\_

- 1. (Currently Amended) A process for the recovery of nickel and cobalt from laterite ores, the process including the steps of:
- a) beneficiating the ore by scrubbing, screening and classification to separate it into a beneficiated upgraded ore fraction and a coarse, siliceous low grade rejects fraction which is substantially free from fines and clay materials;
- b) separately processing the upgraded ore fraction for the recovery of nickel and cobalt; and

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c) subjecting the low grade rejects fraction to a heap leach process with an acid supplemented solution to create a heap leachate fro for further nickel and cobalt recovery processing.

6. (Currently Amended) A process according to claim 4 and or 5 wherein the nickel and cobalt is recovered from either the blended leachate or the low grade rejects heap leachate by precipitation of a sulphide or mixed hydroxide, treatment by solvent extraction, by ion extraction or by other known metallurgical processing routes.

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#### End of Claim Amendments

## Allowable Subject Matter

**3.** Claims 1-17 and 19-20 are allowed.

#### Reasons for Allowance

**4.** The following is an examiner's statement of reasons for allowance:

The closest prior art of Agatzini, Queneau, Patzelt, and Parker teaches treatment of ore before leaching however Agatzini teaches away from the claimed step of beneficiating the ore into a low grade fraction substantially free from fines and clay materials as Agatzini by wetting the ore to agglomerate fines (p. 2, lines 23-30).

Furthermore, Queneau teaches away from heap leaching of the coarse, low grade fractions produced during beneficiation as Queneau teaches that the coarse fraction is instead saved for neutralization of the autoclave discharge slurry (col. 3, lines 35-40).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy M. King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/ Examiner, Art Unit 1793

/ Roy King/ Supervisory Patent Examiner, Art Unit 1793

> 10-564,358 April 23<sup>rd</sup>, 2010